Title (en)

A signal processing circuit

Title (de)

Signalverarbeitungsschaltung

Title (fr)

Circuit de traitement de signal

Publication

EP 2874412 A1 20150520 (EN)

Application

EP 13193367 A 20131118

Priority

EP 13193367 A 20131118

Abstract (en)

A signal processing circuit (700) comprising a distance calculator (704) configured to receive a left reference signal (712) representative of an ultrasound signal supplied to a left acoustic transmitter (740); receive, from a first microphone (750), a left received signal (716) representative of an ultrasound signal transmitted by the left acoustic transmitter (740); determine a left distance between the left acoustic transmitter (740) and the first microphone (750) in accordance with the received left reference signal (712) and the received left received signal (716); receive a right reference signal (714) representative of an ultrasound signal supplied to a right acoustic transmitter (746); receive, from the first microphone (750), a right received signal (718) representative of an ultrasound signal transmitted by the right acoustic transmitter (746); and determine a right distance between the right acoustic transmitter (746) and the first microphone (750) in accordance with the received signal (718). The signal processing circuit (700) also comprises a sound engine (702) configured to provide output audio signalling (724, 726) representative of a sound field in accordance with the determined left distance and the determined right distance.

IPC 8 full level

H04S 7/00 (2006.01)

CPC (source: EP)

H04S 7/304 (2013.01)

Citation (applicant)

C. PHILLIP BROWN; RICHARD O. DUDA: "A structural model for binaural sound synthesis", IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING, vol. 6, no. 5, September 1998 (1998-09-01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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